



Subst. for form 0449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Complete if Known

| | |
|----------------------|-------------------|
| Application Number | 10/008,778 |
| Filing Date | November 13, 2001 |
| First Named Inventor | Eric Kuhrts |
| Art Unit | 1655 |
| Examiner Name | Michael V. Meller |
| Docket Number | 068911-0076 |

Sheet 1 of 5

U.S. PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---------------------|----------|---|--------------------------------|--|---|
| | A1 | US 3,552,975 | 01/5/1971 | Worden, et al. | |
| | A2 | US 3,720,517 | 03/13/1973 | Bavisotto, et al. | |
| | A3 | US 3,932,603 | 06/13/1976 | Haas | |
| | A4 | US 3,933,919 | 01/20/1976 | Wilkinson | |
| | A5 | US 3,965,188 | 06/22/1976 | Westermann, et al. | |
| | A6 | US 4,123,561 | 10/31/1978 | Grant | |
| | A7 | US 4,133,903 | 01/09/1979 | Thiele, et al. | |
| | A8 | US 4,148,873 | 04/10/1979 | Owades | |
| | A9 | US 4,154,865 | 05/15/1979 | Grant | |
| | A10 | US 4,389,421 | 06/21/1983 | Palamand | |
| | A11 | US 4,170,638 | 10/09/1979 | Owades | |
| | A12 | US 4,401,684 | 08/30/1983 | Versluys | |
| | A13 | US 4,473,551 | 09/25/1984 | Schinitzky | |
| | A14 | US 4,554,170 | 11/19/1985 | Panzer, et al. | |
| | A15 | US 4,644,084 | 02/17/1987 | Cowles, et al. | |
| | A16 | US 4,692,280 | 09/08/1987 | Spinelli | |
| | A17 | US 4,767,640 | 08/30/1998 | Goldstein, et al. | |
| | A18 | US 4,857,554 | 08/15/1989 | Kallimanis | |
| | A19 | US 5,006,337 | 04/09/1991 | Motitschke, et al. | |
| | A20 | US 5,013,571 | 05/07/1991 | Hay | |
| | A21 | US 5,041,300 | 08/20/1991 | Todd et al. | |
| | A22 | US 5,073,396 | 12/17/1991 | Todd, Jr. | |
| | A23 | US 5,082,975 | 01/21/1992 | Todd, Jr., et al. | |
| | A24 | US 5,155,276 | 10/13/1992 | Paul | |
| | A25 | US 5,166,449 | 11/24/1992 | Todd, Jr., et al. | |
| | A26 | US 5,286,506 | 02/15/1994 | Millis, et al. | |
| | A27 | US 5,296,637 | 02/01/2000 | Ting, et al. | |
| | A28 | US 5,387,425 | 02/07/1995 | Hsu, et al. | |
| | A29 | US 5,604,263 | 02/18/1987 | Tobe, et al. | |
| | A30 | US 5,624,236 | 11/23/1993 | Ogasahara, et al. | |
| | A31 | US 5,641,517 | 06/24/1997 | Eskeland, et al. | |
| | A32 | US 5,827,895 | 10/27/1998 | Nutter, et al. | |
| | A33 | US 5,968,539 | 10/19/1999 | Beerse et al. | |
| | A34 | US 5,919,813 | 07-06-1999 | De Juan | |
| EXAMINER | | | | DATE CONSIDERED | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

| Subst. for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | | |
|--|----------|---|-------------|--------------------------------|--|---|
| | | | | Application Number | 10/008,778 | |
| | | | | Filing Date | November 13, 2001 | |
| | | | | First Named Inventor | Eric Kuhrts | |
| | | | | Art Unit | 1655 | |
| Examiner Name | | | | Michael V. Meller | | |
| Sheet | 2 | of | 5 | Docket Number | 068911-0076 | |
| U.S. PATENT DOCUMENTS | | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Codez (if known) | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | A35 | US | 6,020,019 | 05/21/2002 | Ting et al. | |
| | A36 | US | 6,129,907 | 02/01/2000 | Sreenivasan, et al. | |
| | A37 | US | 6,200,594 | 03/13/2001 | Ernest et al. | |
| | A38 | US | 6,383,527 | 05/07/2002 | Artman, et al. | |
| | A39 | US | 6,391,346 | 05/21/2002 | Newmark, et al. | |
| | A40 | US | 6,440,465 | 08/27/2002 | Meisner | |
| | A41 | US | 6,447,762 | 09/10/2002 | Galcerá | |
| | A42 | US | 6,583,322 | 06/24/2003 | Shalai, et al. | |
| | A43 | US | 6,689,388 | 02-10-2004 | Kuhrts | |
| | A44 | US | 6,790,459 | 09-2004 | Cheng, et al. | |
| | A45 | US | 6,801,860 | 10/05/2004 | Dessen et al. | |
| | A46 | US | 20020076452 | 06/20/2002 | Babish, et al. | |
| | A47 | US | 20020077299 | 06/20/2002 | Babish, et al. | |
| | A48 | US | 20020086062 | 07/04/2002 | Kuhrts | |
| | A49 | US | 20020086070 | 07/04/2002 | Kuhrts | |
| | A50 | US | 20020028852 | 03/07/2002 | Ghai, et al. | |
| | A51 | US | 20020156087 | 10-2002 | Nuss, et al. | |
| | A52 | US | 20030077313 | 04/24/2003 | Schwartz, Robert ; et al. | |
| | A53 | US | 20030096027 | 05/22/2003 | Babish, et al. | |
| | A54 | US | 20030113393 | 06/19/2004 | Babish, et al. | |
| | A55 | US | 20030133958 | 07/17/2003 | Kuno, et al. | |
| | A56 | US | 20030180402 | 09-25-2003 | Jia et al. | |
| | A57 | US | 20040072900 | 04/15/2004 | Artman et al. | |
| | A58 | US | 20040086580 | 05/06/2004 | Tripp, et al. | |
| | A60 | US | 20040137096 | 07/15/2004 | Kuhrts | |
| | A61 | US | 20040151792 | 08-2004 | Tripp, et al. | |
| | A62 | US | 20040219240 | 11/04/2004 | Babish, et al. | |
| | A63 | US | 20050042317 | 02/24/2005 | Babish, et al. | |
| | A64 | US | 20050129791 | 06/16/2005 | Babish, et al. | |
| | A65 | US | 20050192356 | 09/01/2005 | Babish, et al. | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|---|--------------------------|-------------------|
| Subst. for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/008,778 |
| | | | | Filing Date | November 13, 2001 |
| | | | | First Named Inventor | Eric Kuhrts |
| | | | | Art Unit | 1655 |
| | | | | Examiner Name | Michael V. Meller |
| Sheet | 3 | Of | 5 | Docket Number | 068911-0076 |

FOREIGN PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes - Number - Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines Where Relevant Figures Appear | Translation | |
|---------------------|----------|--|--------------------------------|--|---|-------------|----|
| | | | | | | Yes | No |
| | B1 | DE 19841615 | 03/16/2000 | Mueller | | | |
| | B2 | DE 2212148 | 09/28/1972 | GEN FOODS CORP | | | |
| | B3 | DE 3931147 | 03/28/1991 | SO LONG NATURAL LTD | | | |
| | B4 | JP 07194351 | 08/1/1995 | Nippon Zoki Pharm Co., Ltd. | | | |
| | B5 | JP 410025247 | 01/27/1998 | ASAHI BREWERIES LTD | | | |
| | B6 | JP 10152428 | 06/9/1998 | KANEBO LTD | | | |
| | B7 | JP 9067245 | 03/11/1997 | Ashai Breweries, Ltd. | | | |
| | B8 | JP 04202138 | 07/22/1992 | Asahi Breweries Ltd | | | |
| | B9 | JP 6312924 | 11/8/1994 | Asahi Breweries Ltd | | | |
| | B10 | JP 363211219 | 09/2/1988 | TAIYO KORYO KK | | | |
| | B11 | JP 8073369 | 03/19/1996 | Kubo M | | | |
| | B12 | RU 2045955 | 10/20/1995 | Nikitina | | | |
| | B13 | SU 1247011 | 7/30/1986 | SP K B KHIM N PROIZV OBEDINENI | | | |
| | B14 | WO 00/68356 | 11/16/2000 | Yakima Chief, Inc. | | | |
| | B15 | WO00/74696 | 12/14/2000 | OXFORD NATURAL PRODUCTS PLC | | | |
| | B16 | WO02/02582 | 01/10/2002 | Deutsches | | | |
| | B17 | WO99/44623 | 09/10/1999 | NPS PHARMA INC | | | |
| | B18 | WO03/082249 | 10/09/2003 | Alcon, Inc. | | | |
| | B19 | GB 2330076 | 04/14/1999 | S.S. Steiner, Inc. | | | |
| | B20 | EP 0606599 A1 | 07/20/1994 | Miller Brewing Co. | | | |
| | B21 | EP 0681029 A2 | 11/08/1995 | Zuyckerforschung | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | |
|---------------------|----------|---|--|
| | | See sheet Nos. 4-5 | |
| | | | |
| | | | |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|----------|---|-----------------|----------------------|-------------------|
| Subst. for form 1449/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | 10/008,778 |
| | | | | Filing Date | November 13, 2001 |
| | | | | First Named Inventor | Eric Kuhrts |
| | | | | Art Unit | 1655 |
| | | | | Examiner Name | Michael V. Meller |
| Sheet | 4 | Of | 5 | Docket Number | 068911-0076 |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | |
| | C1 | "Information on arthrotrimtm product", downloaded from Internet 8/30/02. | | | |
| | C2 | "Information on Zyflamend and Zyflamend PM", downloaded from Internet 8/30/02. | | | |
| | C3 | "Information on Hops and Beer Flavours", downloaded from internet 02/15/2005 | | | |
| | C4 | Anto, <i>et al.</i> Pharm. Pharmacol. Comm. <u>4</u> :103-106 (1998) | | | |
| | C5 | Bermejo, <i>et al.</i> Rev. Esp. Enferm. Dig. <u>95</u> : 621-624 and 625-628 (2003) | | | |
| | C6 | Brown, <i>et al.</i> J. Chem. Soc. 545 (1959) | | | |
| | C7 | Byrne, <i>et al.</i> J. Chem. Soc. (c):2810 (1971) | | | |
| | C8 | Carroccio, <i>et al.</i> Clin. Chem. <u>49</u> :861-867 (2003) | | | |
| | C9 | Carson, j. Am. Chem. Soc. <u>73</u> :1850-1851 (1951) | | | |
| | C10 | Chandra, <i>et al.</i> Indian J. Medical Research <u>60</u> (1):138-142 (1972) | | | |
| | C11 | Charlier, <i>et al.</i> Eur. J. Med. Chem. <u>38</u> :645-659 (2003) | | | |
| | C12 | CHOU <i>et al.</i> Eur. J. Biochem. <u>115</u> :207-216 (1981) | | | |
| | C13 | Chou, <i>et al.</i> Adv enzyme regul <u>22</u> :27-55 (1984) | | | |
| | C14 | Chou, <i>et al.</i> J. Biol. Chem. <u>252</u> :6438-6442 (1977) | | | |
| | C15 | Chou, <i>et al.</i> J. Theor. Biol. <u>35</u> :285-297 (1972) | | | |
| | C16 | Chou, <i>et al.</i> Trends Pharm. Sci. <u>4</u> :450-454 (1983) | | | |
| | C17 | Chou, j. Theor. Biol. <u>59</u> :253-276 (1976) | | | |
| | C18 | Cohen, Protein Kinases – the major drug targets of the twenty-first century? Nature Reviews, Vol. 1; 309-315; (April 2002) | | | |
| | C19 | Costa, <i>et al.</i> Digest. Liver Dis. <u>35</u> :642-647 (2003) | | | |
| | C20 | Davies, WL. Abstract - Fertiliser, Feeding stuffs and Farm Supplies J. <u>11</u> :694 (1926) | | | |
| | C21 | Ding, <i>et al.</i> Biochem. Biophy. Res. Comm. <u>261</u> :218-223 (1999) | | | |
| | C22 | Exercise as Treatment for Arthritis, http://www.clevelandclinic.org/arthritis/treat/facts/exercise.htm | | | |
| | C23 | Friedman, <i>et al.</i> J Cutan Med. Surg. <u>6</u> (5):449-459 (2002) | | | |
| | C24 | Germany, "The Absolutely German Drink," contents of beer, 2004, 5 pages. | | | |
| | C25 | Gerhauser, "Beer Constituents as Potential Cancer Chemopreventive Agents, EP Journal of Cancer <u>41</u> ; 1941-1954; (2005) | | | |
| | C26 | Goldstein, <i>et al.</i> Am. J. Gastroenterol. <u>96</u> :1019-1027 (2001) | | | |
| | C27 | Halter, <i>et al.</i> Gut <u>49</u> :443-453 (2001) | | | |
| | C28 | Hamberg, <i>et al.</i> J. Bio. Chem. <u>246</u> :6713-6721 (1971) | | | |
| | C29 | Huang, <i>et al.</i> Cancer Res. <u>51</u> :813-819 (1991) | | | |
| | C30 | International Search Report for PCT/US02/19617 | | | |
| | C31 | International Search Report for PCT/US04/16043 | | | |
| | C32 | Jach, Przegl Dermatol. <u>65</u> (4):379-382 (1978) | | | |
| | C33 | Kanematsu, <i>et al.</i> J Bone Miner Res <u>12</u> (11):1789-1796 (1997) | | | |
| | C34 | Lopes, Curr. Med Res Opin. <u>8</u> :145-149 (1982) | | | |
| | C35 | Meling, <i>et al.</i> Scand. J. Gastroenterol. <u>31</u> :339-344 (1996) | | | |
| EXAMINER | | | DATE CONSIDERED | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|---|----------|---|---|--------------------------|-------------------|
| Subst. for form 1449/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Application Number | 10/008,778 |
| | | | | Filing Date | November 13, 2001 |
| | | | | First Named Inventor | Eric Kuhrts |
| | | | | Art Unit | 1655 |
| | | | | Examiner Name | Michael V. Meller |
| Sheet | 5 | of | 5 | Docket Number | 068911-0076 |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | |
| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | |
| | C36 | Noreen, <i>et al.</i> J. Nat. Prod 61:2-7 (1998) | | | |
| | C37 | Pairet, <i>et al.</i> Inflamm. Res 47, Supplement 2s93-s101 (1998) | | | |
| | C38 | Panglisch, monafsschrift fuer brauwissen schaft, 1990, 43(1), 4-16 | | | |
| | C39 | Pippa, <i>et al.</i> Scand. J. Gastroenterol. Suppl. 167:32-35 (1989) | | | |
| | C40 | Plewig, <i>et al.</i> J Invest. Dermatol. 65(6):532-536 (1975) | | | |
| | C41 | Poullis, <i>et al.</i> J. Gastroenterol. Hepatol. 18:756-762 (2003) | | | |
| | C42 | Ringbom, <i>et al.</i> J. Nat Prod 61:1212-1215 (1998) | | | |
| | C43 | Rosemary-Eco Botany, Chemistry, Provital Group | | | |
| | C44 | Røseth, digest. Liver Dis. 35:607-609 (2003) | | | |
| | C45 | Schjerven, <i>et al.</i> Br. J. Dermatol. 149:484-491 (2003) | | | |
| | C46 | Shah, <i>et al.</i> Gut 48:339-346 (2001) | | | |
| | C47 | Shimamura, <i>et al.</i> Biochem. Biophys. Res. Comm. 289:220-224 (2001) | | | |
| | C48 | Shureiqi, <i>et al.</i> Cancer res. 61:6307-6312 (2001) | | | |
| | C49 | Sivri, fundam. Clinic. Pharmacol. 18:23-31 (2004) | | | |
| | C50 | Smith, <i>et al.</i> , "Natural Foam Stabilizing and Bittering Compounds Derived from Hops", American Society of Brewing Chemists, (1/20/98) | | | |
| | C51 | Subbaramaiah, <i>et al.</i> Cancer Res. 60:2399-2404 (2000) | | | |
| | C52 | Suh, <i>et al.</i> Cancer Res. 58:717-723 (1988) | | | |
| | C53 | Tagashira, <i>et al.</i> , Biosci. Biotech. Biochem. 59(4):740-742 (1996) | | | |
| | C54 | Newmark, <i>et al.</i> , 'Beyond Aspirin nature's answer to arthritis, cancer & alzheimer's disease,' hohm press (2000) release 7; pp. 147-151, 248. | | | |
| | C55 | Tibble, <i>et al.</i> Drugs Today 37:85-96 (2001) | | | |
| | C56 | Tibble, <i>et al.</i> Gut 45:362-366 (1999) | | | |
| | C57 | Tobe, <i>et al.</i> Biosci. Biotech. Biochem 61(1):158-159 (1997) | | | |
| | C58 | Vanhoeacker, <i>et al.</i> , "Analysis of iso-a-acids and reduced iso-a-acids in beer....", Journal of Chromatography, 1035, (2004), 53-61, www.sciencedirect.com | | | |
| | C59 | Wang, <i>et al.</i> Free Radical Biology & Medicine 27:612-616 (1999) | | | |
| | C60 | Warner, <i>et al.</i> Proc Natl Acad Sci USA 96:7563-7568 (1999) | | | |
| | C61 | Yamamoto, <i>et al.</i> Abstract - Prostaglandins & Other Lipid Mediators 59:1-235 (1999) | | | |
| | C62 | Yamamoto, FEBS Letters 465:103-106 (2000) | | | |
| | C63 | Yui, <i>et al.</i> Biol. Pharm. Bull. 26:753-760 (2003) | | | |
| | C64 | Supplemental European Search Report for corresponding EP Application No. 05 72 3895 | | | |
| | C65 | International Search Report for PCT /US06/30920, 08/03/07, 3 pages | | | |
| | C66 | Gilani, "Studies on Antihypertensive and Antispasmodic Activities of Methanol Extract of Acacia nilotica Pods", Phytotherapy Research 13, 665-669 (1999) | | | |
| EXAMINER | | | | DATE CONSIDERED | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

BST99 1585036-1.068911.0076